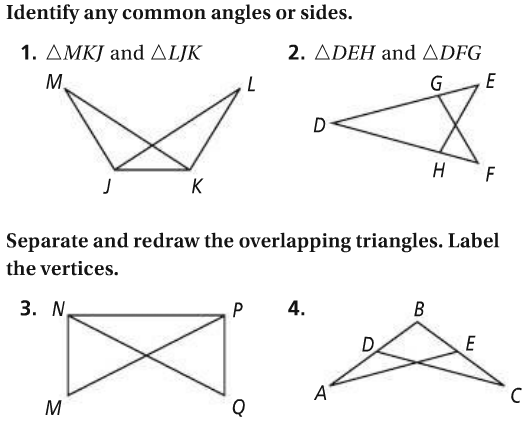
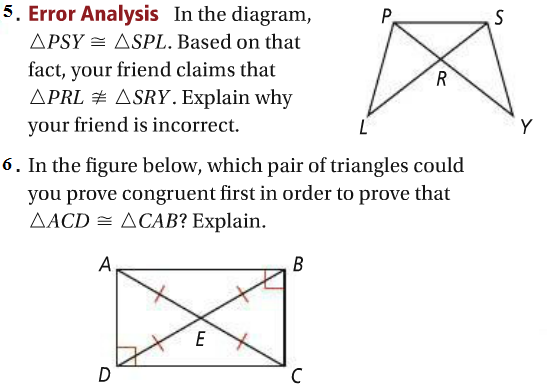
**Guided Notes for 4.7: Overlapping Triangles**

|  |  |
| --- | --- |
| Lesson Objective   * Learn the properties of overlapping triangles | What do you already know about the lesson objective? What do you need to learn?  What can you deduce from the diagram to the left? What questions do you have?  How many geometric objects can you identify? |
| F | How many triangles can you find in this diagram? Draw them separately below. Be sure to label them!  Do the triangles share any parts?  How many triangles are there in the drawing to the left? Which part(s) are shared?  Can we prove that any of the triangles are congruent? How? |
| Hint: you may have to prove more than one pair of triangles are congruent. | Write a proof given the information to the left. |
|  | Given the information to the left can you prove that ?  Use the diagram for clues how to proceed! |

**Choose any three questions to answer. Write your answers on a separate piece of paper. Be sure to put your name on it and rate yourself 1-4 on your understanding of the concept of overlapping triangles and using it in congruency problems.**



Self-assessment: at the bottom of your answer sheet write down how well you understand this concept from 1 to 4.

1: I don’t understand

2: I kind of understand

3: I understand but may need a little help

4: I understand and can explain it to others